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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/698,401	11/03/2003	Shi-Ming Chen	87391.0300	3435
	7590 04/19/2004		EXAMINER	
BAKER & HOSTETLER LLP			BAUMEISTER, BRADLEY W	
Suite 1100 Washington Square			ART UNIT	PAPER NUMBER
1050 Connecticut Avenue, N.W.			2815	
Washington, DC 20036			DATE MAILED: 04/19/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

•1			<b>\</b>			
		Application No.	Applicant(s)			
Office Action Summary		10/698,401	CHEN, SHI-MING			
		Examiner	Art Unit			
		B. William Baumeister	2815			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE   - External after - If the - If NC - Failur	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply or period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>06 A</u>	<u>oril 2004</u> .				
,		action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
<ul> <li>4) ⊠ Claim(s) 1-25 is/are pending in the application.</li> <li>4a) Of the above claim(s) 12-25 is/are withdrawn from consideration.</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☒ Claim(s) 1-11 are subject to restriction and/or election requirement.</li> </ul>						
Applicat	ion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority (	under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Infor	ot <b>(s)</b> ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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## Restriction

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-6 and 11, drawn to an LED having a solder layer, classified in class 257, subclass 98.

Species IA: Claim 6, drawn to the species of invention I wherein the solder is composed of a metal.

Species IB: Claim 5, drawn to the species of invention I wherein the solder is composed of an organic material.

II. Claims 7-10, drawn to the LED of invention I wherein the semiconductor epitaxial structure further comprises an n-contact layer, classified in class 257, subclass 99.

Species IIA: Claim 9, drawn to the species of invention II wherein the n-contact layer is a continuous surface structure.

Species IIB: Claim 10, drawn to the species of invention II wherein the n-contact layer is a discontinuous surface structure.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions II and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as

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claimed because either species of the combination can be practiced with either species of the subcombination. The subcombination has separate utility such as in an LED that has an electrode connected directly to the n-clad without the further inclusion of an n-contact layer.

- 3. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.
- 4. This application contains claims directed to two sets of patentably distinct species of the claimed inventions as set forth above as species IA/B and species IIA/B, respectively.

Upon election of either invention I or II, Applicant is required under 35 U.S.C. 121 to elect a single disclosed species thereof for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-4 and 11 are generic to species IA and IB. Claims 7 and 8 are generic to species IIA and IIB.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. William Baumeister whose telephone number is (571) 272-1722. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-paulications).

B. William Baumeister Primary Examiner Art Unit 2815